

reproduced except in full, without the written approval of Newport. Specific information concerning parameters and measurements is in attachment(s). Calibration ratio is at least 4:1 unless otherwise stated.

Calibration Date: 31-Mar-2020

DD-MMM-YY

Calibration By:

Title:

Reviewed By:

CAL STICKER Newport recommends recalibration 12 months after the initial recalibration. Fill in the date and due date on calibration sticker. Remove and apply it to the Instrument as required.

Page 1 of 1

P/N 21650-01 Rev. L

Detector Calibration Report

Newport

Newport Corporation

1791 Deere Avenue, Irvine, CA 92606

Telephone: 949-863-3144 Facsimile: 949-253-1800

Report Number:

918D-UV-OD3R31-Mar-20202606CN

Detector Model Number:

918D-UV-OD3R

Detector Serial Number:

2606

External Attenuator

Serial Number:

2606

Operator:

Lei Zhu

Traceability Number:

685/285553-14

Calibration Date:

31-Mar-2020

Calibration Temperature:

23.5 ± 0.5 °C

Initial Purchaser

Procedure:

PTP44571-1

Humidity: 40.3

10.3 %

Please remove & apply calibration sticker to the instrument as required.

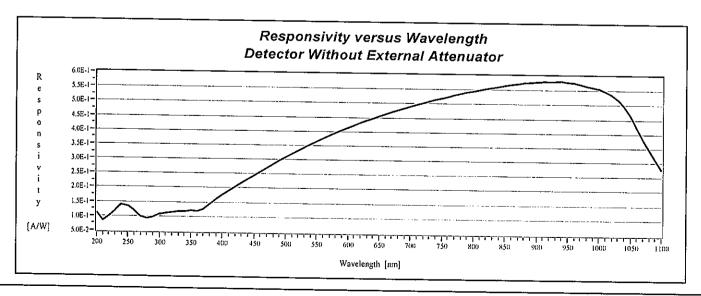
Customer Address:

Table 1. Responsivity [A/W]:

Customer:

Detector Without External Attenuator

Lambda	0	10	20	30	40	50	60	70	80	90
200	1.1182E-1	8.3790E-2	9.9336E-2	1.1794E-1	1.3976E-1	1.3468E-1	1.1969E-1	9.9398E-2	9.2959E-2	9.7274E
300	1.0714E-1	1.1171E-1	1.1426E-1	1.1703E-1	1.1773E-1	1.2088E-1	1.1892E-1	1.2579E-1	1.4393E-1	1.6066E
400	1.7545E-1	1.8985E-1	2.0369E-1	2.1783E-I	2.3101E-I	2.4373E-1	2.5716E-1	2.7001E-I	2.8406E-1	2.9636E
500	3.0858E-1	3.1946E-1	3.3116E-1	3.4238E-1	3.5365E-1	3.6419E-1	3.7476E-1	3.8500E-1	3.9475E-1	4.0427E
600	4.1315E-1	4.2228E-1	4.3095E-I	4.3917E-1	4.4664E-1	4.5493E-1	4.6199E-1	4.7011E-1	4.7656E-1	4.8352E
700	4.9002E-1	4.9639E-1	5.0252E-1	5.0860E-1	5.1479E-1	5.1921E-1	5.2403E-1	5.3108E-1	5.3588E-1	5,4113E
800	5.4424E-1	5.4898E-1	5.5386E-1	5.5744E-1	5.6112E-1	5.6508E-I	5.6912E-1	5.7109E-1	5.7515E-1	5.7631E
900	5.7808E-1	5.7967E-I	5.7972E-I	5.8030E-1	5.8199E-1	5.7792E-1	5.7674E-1	5.7125E-1	5.6529E-1	5.6098E
1000	5.5639E-1	5.4609E-1	5.3488E-1	5.1847E-1	4.9443E-1	4.6252E-1	4.1774E-1	3.7865E-I	3,4439E-1	3.1015E
1100	2.7636E-1									



Detector Calibration Report



Newport Corporation

1791 Deere Avenue, Irvine, CA 92606 Telephone: 949-863-3144

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Report Number: 918D-UV-OD3R31-Mar-20202606CN

Detector Model Number: 918D-UV-0D3R

Detector Serial Number: 2606
External Attenuator Serial Number: 2606

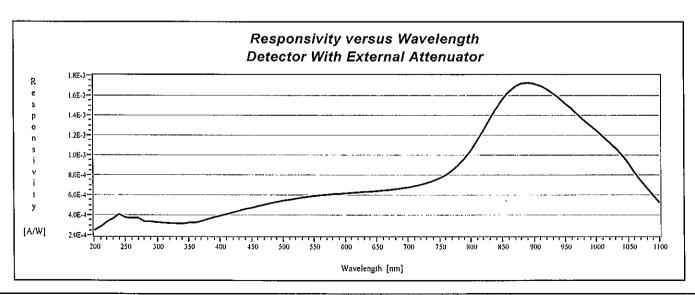
Customer: Initial Purchaser

Newport certifies that the calibration was performed using standards traceable to the National Institute of Standards and Technology (NIST), National Research Council (NRC) using natural physical constants, or ratio techniques. The calibration complies with ANSI/NCSL Z540-1-1994 and ISO 9001. This certificate shall not be reproduced, except in full, without written approval by Newport. The expanded uncertainty claims are based on +/- 2 standard deviations of all known calibration variables. For example, if the calibration uncertainty is claimed to be +/-2%, that means there is a 95% probability the reported responsivity falls within +/- 2% of the NIST reference standard.

Table 2. Responsivity [A/W]:

Detector With External Attenuator

Lambda	0	10	20	30	40	50	60	70	80	90
200	2.4182E-4	2.8254E-4	3.2885E-4	3.6377E-4	4.0628E-4	3.7386E-4	3.6892E-4	3.6897E-4	3.3404E-4	3.3454E-4
300	3.2738E-4	3.2194E-4	3.1767E-4	3.1547E-4	3.1408E-4	3.2335E-4	3.2494E-4	3,3790E-4	3.5942E-4	3.7728E-4
400	3.9234E-4	4.0834E-4	4.2496E-4	4.4227E-4	4.6053E-4	4.7196E-4	4.8808E-4	5.0261E-4	5.1817E-4	5.3070E-4
500	5.4356E-4	5.5273E-4	5.6333E-4	5.7293E-4	5.8097E-4	5.8846E-4	5.9545E-4	6.0050E-4	6.0631E-4	6.1017E-4
600	6.1488E-4	6.2025E-4	6.2456E-4	6.2875E-4	6.3260E-4	6.3784E-4	6.4333E-4	6.4991E-4	6.5701E-4	6.6635E-4
700	6.7591E-4	6.8768E-4	7.0097E-4	7.1781E-4	7.3893E-4	7.6378E-4	7.9621E-4	8.4056E-4	8.9452E-4	9.6280E-4
800	1.0406E-3	1.1350E-3	1.2429E-3	1.3558E-3	1,4608E-3	1.5562E-3	1.6327E-3	1.6854E-3	1.7193E-3	1.7263E-3
900	1.7197E-3	1.6979E-3	1.6648E-3	1.6225E-3	1.5785E-3	1.5215E-3	1.4707E-3	1.4111E-3	1.3530E-3	1.3001E-3
1000	1.2488E-3	1.1888E-3	1.1325E-3	1.0709E-3	1.0012E-3	9.2376E-4	8.2705E-4	7.4191E-4	6.6647E-4	5.9308E-4
1100	5.2212E-4				ļ					



Detector Calibration Report

Newport

Newport Corporation

1791 Deere Avenue, Irvine, CA 92606

Telephone: 949-863-3144 Facsimile: 949-253-1800

Report Number: 918D-UV-OD3R31-Mar-20202606CN

Detector Model Number: 918D-UV-0D3R

Detector Serial Number: 2606
External Attenuator Serial Number: 2606

Customer: Initial Purchaser

Table 3. Calibration Factors:

Detector Without External Attenuator

Lambda	0	10	20	30	40	50	60	70	80	90
200	8.9430E+0	1.1935E+1	1.0067E+1	8.4789E+0	7.1553E+0	7.4249E+0	8.3546E+0	1.0061E+1	1.0757E+1	1.0280E+1
300	9.3337E+0	8.9514E+0	8.7522E+0	8.5450E+0	8.4942E+0	8.2726E+0	8.4088E+0	7.9497E+0	6.9479E+0	6.2243E+0
400	5.6996E+0	5.2674E+0	4.9094E+0	4.5907E+0	4.3288E+0	4,1030E+0	3.8886E+0	3.7036E+0	3,5204E+0	3.3743E+0
500	3.2406E+0	3.1303E+0	3.0196E+0	2.9207E+0	2.8276E+0	2.7458E+0	2.6684E+0	2.5974E+0	2.5333E+0	2.4736E+0
600	2.4204E+0	2.3681E+0	2.3204E+0	2.2770E+0	2,2390E+0	2.1981E+0	2.1645E+0	2.1272E+0	2.0984E+0	2,0682E+0
700	2.0407E+0	2.0145E+0	1.9900E+0	1.9662E+0	1.9425E+0	1.9260E+0	1.9083E+0	1.8830E+0	1.8661E+0	1.8480E+0
800	1.8374E+0	1.8216E+0	1.8055E+0	1.7939E+0	1.7822E+0	1.7697E+0	1.7571E+0	1.7510E+0	1.7387E+0	1.7352E+0
900	1.7299E+0	1.7251E+0	1.7250E+0	1.7232E+0	1.7182E+0	1.7303E+0	1.7339E+0	1.7505E+0	1.7690E+0	1.7826E+0
1000	1.7973E+0	1.8312E+0	1.8696E+0	1.9288E+0	2.0225E+0	2.1621E+0	2.3938E+0	2.6409E+0	2.9037E+0	3.2242E+0
1100	3.6184E+0		, .						-	

Table 4. Calibration Factors:

Detector With External Attenuator

Lambda	0	10	20	30	40	50	60	70	80	90
200	4.1353E+3	3,5394E+3	3.0409E+3	2.7490E+3	2.4614E+3	2.6748E+3	2,7106E+3	2.7102E+3	2.9936E+3	2.9891E+3
300	3.0546E+3	3.1062E+3	3.1479E+3	3.1698E+3	3.1839E+3	3.0926E+3	3.0775E+3	2.9594E+3	2.7823E+3	2.6505E+3
400	2.5488E+3	2.4489E+3	2.3531E+3	2.2611E+3	2.1714E+3	2.1188E+3	2.0488E+3	1.9896E+3	1.9299E+3	1.8843E+3
500	1.8397E+3	1.8092E+3	1.7752E+3	1.7454E+3	1.7213E+3	1.6994E+3	1.6794E+3	1.6653E+3	1.6493E+3	1.6389E+3
600	1.6263E+3	1.6123E+3	1,6011E+3	1.5905E+3	1.5808E+3	1,5678E+3	1.5544E+3	1.5387E+3	1.5220E+3	1.5007E+
700	1.4795E+3	1.4542E+3	1,4266E+3	1.3931E+3	1.3533E+3	1,3093E+3	1.2559E+3	1.1897E+3	1.1179E+3	1.0386E+
800	9,6101E+2	8.8105E+2	8,0456E+2	7.3755E+2	6.8457E+2	6,4259E+2	6.1247E+2	5.9334E+2	5.8162E+2	5.7927E+
900	5.8151E+2	5.8895E+2	6.0066E+2	6.1635E+2	6.3352E+2	6.5724E+2	6.7994E+2	7.0866E+2	7.3911E+2	7.6916E+
1000	8.0077E+2	8.4121E+2	8.8303E+2	9.3382E+2	9,9881E+2	1.0825E+3	1.2091E+3	1.3479E+3	1.5004E+3	1.6861E+
1100	1.9153E+3									

Wavelength Range	Uncertainty Over the Range WITHOUT the External Attenuator	Uncertainty Over the Range WITH the External Attenuator
200 - 219	± 4 %	± 8%
220 - 349	± 2%	± 2%
350 - 949	± 1%	± 1%
950 - 1100	± 4%	± 4%

Standards:

Model: Hamamatsu

Serial: D214

Due Date: 12/19/2021